

COUNTY, UTAH AND FRANKLIN COUNTY, IDAHO

by Jon Brummer and James McCalpin 1995

Qlf

Qd₃

Qds

Qal₁

Qal₄

Qaf,

Qms

Tslt

Ogc

Csc

DESCRIPTION OF MAP UNITS

Lacustrine fine-grained deposits; undifferentiated levels- Silt and clay; lake bottom sediments; Bonneville lake cycle; 40 to 50 feet (12 to 15 m) thick.

Lacustrine sand and silt deposits; Provo level- Well stratified Qls₃ fine sand and silt; Bonneville lake cycle; < 17 feet (<5 m) exposed thickness.

Lacustrine sand and silt deposits; Bonneville level- Coarse Qls₄ sand to fine silt; Bonneville lake cycle; <17 feet (<5 m) exposed thickness.

cobbles to medium sand; delta-derived longshore drift; Bonneville lake cycle; <17 feet (<5 m) exposed thickness. Lacustrine gravel deposits; Bonneville level- Cobbles to

medium sand; bar and shoreline gravel; Bonneville lake cycle; <35 feet (<10 m) exposed thickness. Deltaic gravel deposits; post-Provo level- Pebbles and

Lacustrine gravel deposits; Provo level- Cross-bedded

cobbles in sand matrix; Bonneville lake cycle; <17 feet (<5 m) exposed thickness. Deltaic deposits; Provo level- Pebbles and cobbles in sand matrix; Bonneville lake cycle; <85 feet (<25 m) exposed

Deltaic sand deposits; Provo or post-Provo level- Fine sand to silt; Bonneville lake cycle; <17 feet (<5 m) exposed thickness.

Stream alluvium - Pebble to cobble gravel in sand and silt

matrix; modern floodplain and terrace sediments; <17

Natural levee deposits of the Bear River - Fine sand to silt; Qan <17 feet (<5 m) exposed thickness.

feet (<5 m) exposed thickness. Stream alluvium - Pebble to cobble gravel in sand and silt Qal₂ matrix; floodplain and terrace sediments more than 16 feet (5 m) above modern stream level; <17 feet (<15 m) exposed thickness.

Younger stream alluvium - Pebble to cobble gravel in sand Qaly and silt matrix; undivided Qal, and Qal, (Holocene) floodplain and terrace sediments; variable thickness but at most <35 feet (<10 m).

Stream alluvium - Pebble to cobble gravel in sand and silt Qal₃ matrix; terrace sediments graded to Provo level; Bonneville lake cycle; <17 feet (<5 m) exposed Stream alluvium - Pebble to cobble gravel in sand and silt

level, Bonneville lake cycle; <17 feet (<5 m) exposed Stream alluvium - Pebble to cobble gravel; pre-Bonneville Qal₅ lake cycle deposits; <17 feet (<5 m) exposed

matrix; sand lenses; terraces graded to the Bonneville

Alluvial-fan deposits - Pebbles and cobbles in sand, silt and clay matrix; locally bouldery; <17 feet (<5 m) exposed

Pediment-mantle deposits - Rounded quartzite cobbles and

Alluvial-fan deposits - Pebbles and cobbles in sand, silt and Qaf₂ clay matrix; locally bouldery; <17 feet (<5 m) exposed

Qap boulders; <35 feet (<10 m) exposed thickness.

Undifferentiated alluvium and colluvium - Unknown Qac thickness.

Hillslope colluvium - Developed on Tertiary bedrock and pediment-mantle deposits; cobbles and boulders common; <17 feet (<5 m) exposed thickness.

Tertiary bedrock; variable thickness. Salt Lake Formation conglomerate - Mostly quartzite and

Slide, slump and flow deposits - Unsorted, unstratified; on

Tslc carbonate clasts in tuffaceous, sandy matrix; exposed thickness approximately 700 feet (213 m). Salt Lake Formation tuffaceous rocks - Tuffaceous claystone

> Garden City Formation - Gray limestone, usually brecciated; not in-place; incompletely exposed.

and ash; exposed thickness up to 500 feet (152 m).

St. Charles Formation - Dark gray, brecciated dolostone and basal white to tan quartz arenite; not in-place;

Ute(?) Formation - Gray oolitic limestone; isolated block not

Langston(?) Formation - Olive-tan shale and gray

limestone; isolated block not in-place. Cambrian(?) limestone - Gray limestone; isolated block not

in-place.

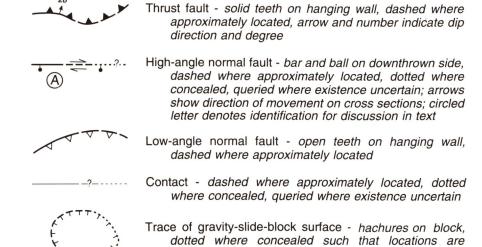
quartzite with interbedded conglomerates; about 2,500 feet (762 m) thick. Mutual Formation - Red, purple, and purple-white banded

Geertsen Canyon Quartzite - Pink, tan, olive, and white

quartzite with interbedded conglomerate; about 3,000 feet (914 m) thick.

Undifferentiated Proterozoic and Cambrian quartzite - Large blocks, slabs, and boulders; not in-place.

MAP SYMBOLS **CORRELATION OF MAP UNITS**



diagrammatic Bonneville-level shoreline

Strike and dip - broken where measurement uncertain

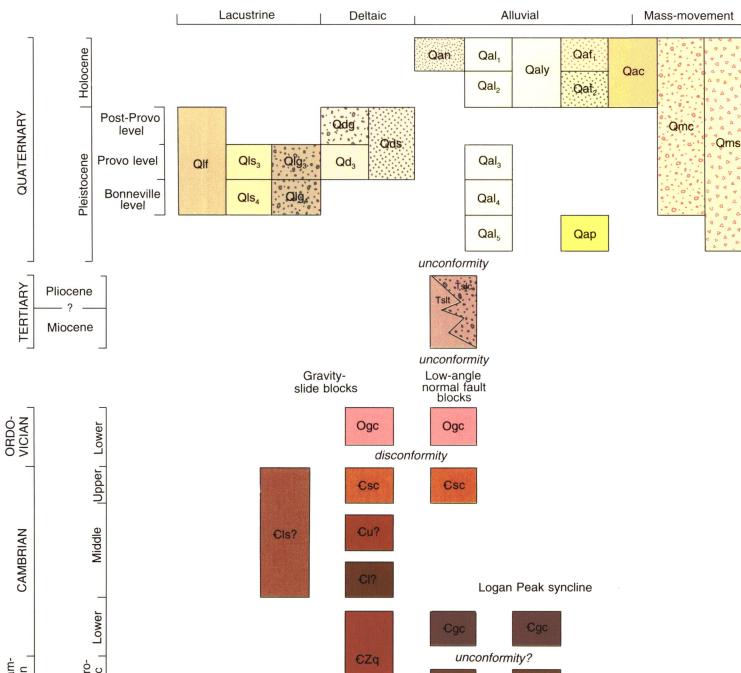
Provo-level shoreline

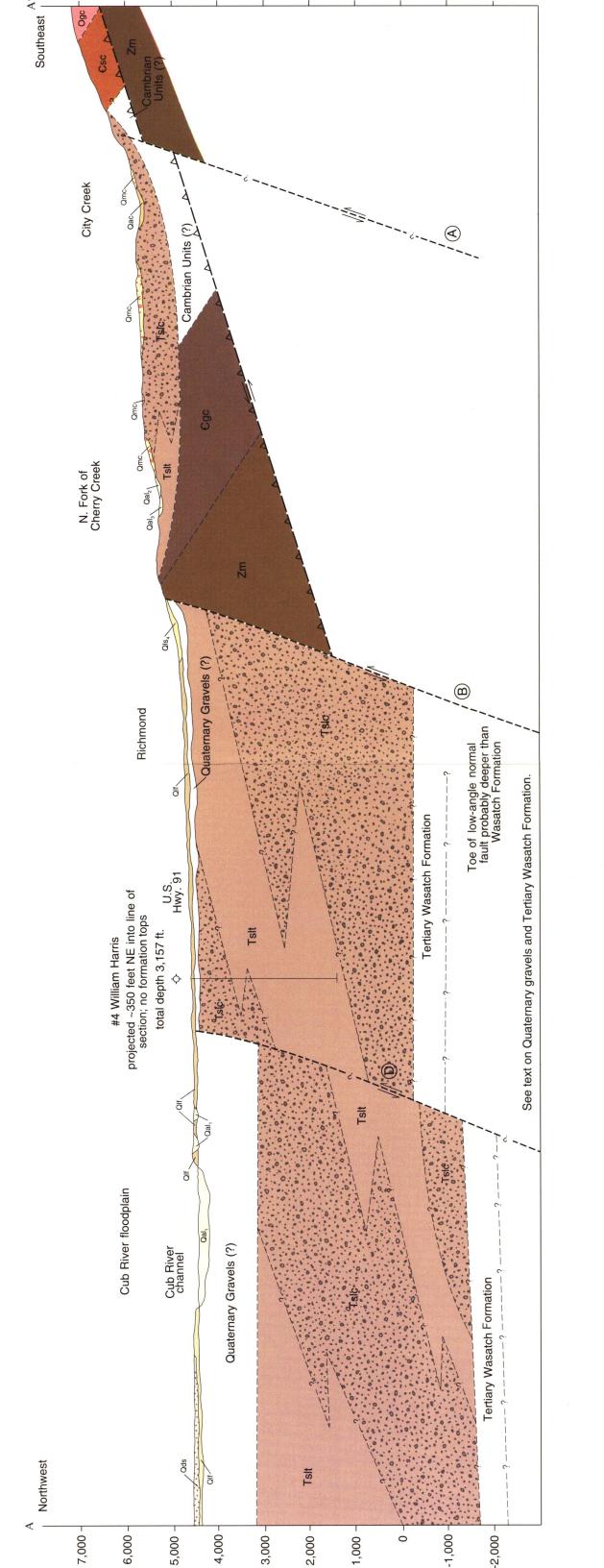
Locality - mentioned in text; Tslt-claystone

correspond to those in table 2

Gravel pit - larger pits have hachured outlines; numbers Line of cross section Oil and gas exploration well - dry hole, abandoned

Feet above sea level





Feet above sea level

